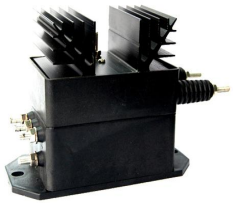
THE DATASHEET OF

FSV-LV

FSV6000LV 系列霍尔电压传感器



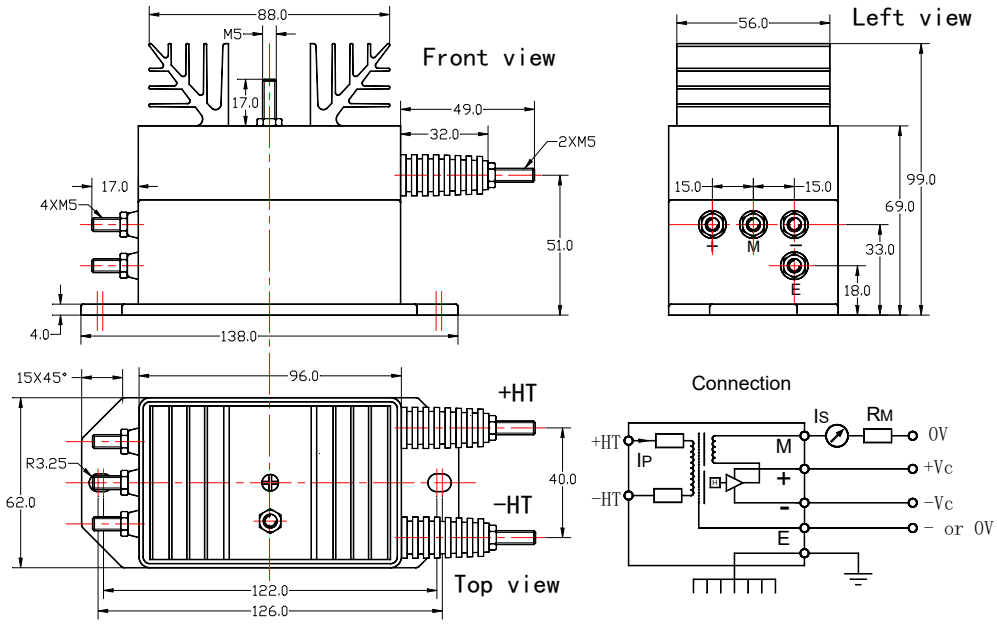
应用霍尔效应闭环原理的电压传感器，能在电隔离条件下测量直流、交流和脉冲等各种信号的电压。

Voltage sensors applying the Hall effect closed-loop principle are capable of measuring the voltage of various signals such as DC, AC and pulses under galvanic isolation conditions.

电参数/Electrical characteristics									
	型号 Type	FSV300LV	FSV500LV	FSV1000LV	FSV2000LV	FSV3000LV	FSV4000LV	FSV6000LV	
V_{PN}	原边额定输入电压 Primary nominal input voltage	300	500	1000	2000	3000	4000	6000	V
V_P	原边电压测量范围 Measuring range ofprimary voltage	0～±600	0～±1000	0～±2000	0～±3000	0～±4500	0～±6000	0～±6000	V
P_P	总输入功耗 Total Input Power Consumption	1.5	1.25	2.5	5.0	7.5	10	11.6	W
K_N	匝数比 turns ratio	20000：1000							T
I_{PN}	原边额定输入电流 Primary side rated input current	5.0	2.5						mA
I_{OUT}	副边额定输出电流 Nominal output current	50±0.5%							mA
R_M	测量电阻 Measurement of resistance	V_C=±15V V_P=±2.5mA 时:	50～200						
		V_C=±24V V_P=±2.5mA 时:	100～330						
V_C	电源电压 Supply voltage	±15～±24(±5%)							V
I_C	电流消耗 Current consumption	20+IpX(K_N)							mA
V_d	绝缘电压 Insulation voltage	在原边与副边电路之间 12kV 有效值/50Hz/1 分钟							
ε_L	线性度 Linearity	<0.2							%FS
I_0	失调电流 Out-of-regulation current	T_A=25℃	<±0.20						mA

I_{OT}	失调电流温漂 Thermal drift of current	I_P=0 T_A=-40～+85℃			<±0.6				mA
Tr	响应时间 Response time	<200							us
T_A	工作环境温度 Ambient operating temperature	-40～+85							℃
T_S	贮存环境温度 Ambient storage temperature	-40～+125							℃
R_p	输入内阻 Input Internal Resistance	60K	200K	400K	800K	1.2M	1.6M	2.4M	Ω
R_s	副边线圈内阻 Internal resistance of the secondary coil	T_A=85℃			55				Ω
m	质量(约） Weight(approx)	855							g
	标准 standard	GI/FS-0105							

外形尺寸(㎜)/Dimensions of drawing(mm)



使用说明/Remarks

1. Incorrect wiring of the sensor may result in damage to the module. The temperature of the primary conductor must not exceed 100°C.

2. After the sensor is energized, when the measured voltage is connected from the sensor input +HT terminal, the same phase current value can be measured at the output terminal.

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